

Fredonia, N.Y. March 20<sup>th</sup> 1832.

Dear Sir,

Sometime in November last I received, through the hands of H. R. Schoolcraft Esq<sup>r</sup> of the Sant Ste Marie, notice that you had made some request respecting the plants which were collected during the expedition of the past summer - He also informed me that he had written you upon the same subject -

In the expedition referred to I acted as naturalist, and have now the entire collection of plants, as well as parts of the other collections in my possession - You are undoubtedly well aware of the numerous difficulties which are presented in preserving and securing plants during a long and tedious canoe voyage - With the utmost care, I was unable to preserve many of my duplicate specimens, & others were entirely lost, or much injured - I send you a catalogue, as it was first taken, embracing many common plants which were preserved, mostly for comparison with our eastern & more southern plants. The unfortunate loss of my most valuable botanical books, of reference, together with an uncommon prepossession of business, has prevented any thing more than a cursory examination of the plants, since my return to this place - At the Sant Ste Marie, by the aid of Dr. James, of the U. S. Army, I was enabled to solve some of my difficulties, the others I shall not attempt until I am enabled to procure suitable works to do so, & situated as we are here this is no small task -

During the summers of 1824 & 5 I devoted much of my time to collecting and making a catalogue of the plants of this County (Chautauque) together with those of the western parts of Pennsylvania & Ohio, and there were several which were stumbling blocks to me & I had hoped, ~~to~~ upon my return (having been absent most of the time since that collection was made) to find them in good keeping; but an accident having befallen them, they were together with the catalogue completely destroyed, and as there is not (to my knowledge) a botanist in this county, it may be long ere an other collection will be made -

I am attached to an expedition for the ensuing summer, in the double capacity of surgeon & naturalist, which bids fair to be of far greater interest in a botanical point of view than that of the last summer. Should nothing prevent I shall leave here in two or three weeks for the purpose of joining the others of the party, who are now at Galena, Ill. The country to be explored is chiefly between the Mississippi, a little below the Falls of St Anthony, and the Missouri, as high as Council Bluffs - I do not doubt but this will be, like that of the past summer, a constant botanical feast, and I do not intend to leave any exertions untired which will aid in securing the collection which will be made - Should you



have any particular plants <sup>of that country</sup> ~~in view~~ of which you would like to have an extra  
specimen collected, please inform me at this place -

An anticipated visit to N. York has ~~delayed~~ <sup>prevented</sup> my writing to you  
upon this subject before, & the imperfect catalogue which I forward, makes me  
almost regret to do so now - Mr. Schoecraft, will probably visit New  
York early in the season -

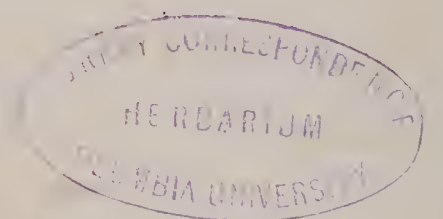
As this catalogue was taken from my pocket notes ~~it~~ <sup>they</sup> does not  
contain authorities for the specific names, but as Eaton's manual <sup>5th Edition</sup> was the  
work which I used in the field, you will easily understand it, by reference -  
Plants of the following genera, upon which subject I have consulted Dr. James  
appear to be undescribed in the works which we consulted; viz. *Artemisia*,  
*Lysimachia*, *Helonias*, *Grossera*, *Commelina*, *Boerhaavia*, *Bunias*,  
*Nasturtium*, *Eryngium* & *Primula* - Supposing it would not be uninteresting  
I have added localities, in the catalogue; of most of the plants there  
are duplicates - Most of those generic names which stand alone  
refer to plants, which were collected when circumstances would not permit  
a specific examination, or which were not described in the works in my  
possession -

Will you please inform me at what time you will probably  
publish your proposed work on Cryptogamous plants, we look for its publication  
with much interest - In a conversation ~~had~~ with Dr. Beck of Albany  
~~more~~ than a year ago he informed me that he would probably pub-  
lish his proposed work on *Musci* early in the last summer - I have  
not yet learned whether that work is from the press -

Yours &c

Douglas Houghton -

To Prof John Torrey -





*Anthriscus oligostachium*, Cap Ville Up. Miss.  
*Allium triocum*, Ontonagon R. Lk Superior  
*Aira* Pt. aux Pins, St Marys Riv.  
*Ambrosia* Fox River.  
*Amorpha canescens*, St. Croix Riv.  
*Artemisia sanguinea*, Namakwagon Riv.  
*Arabis* Presque Isle Lk. Sup.  
*Arenaria* Lk. Michigan.  
*Artemisia canadensis*, Pt. aux Pins. Lk. Sup.  
" *frigida*?? Keweenaw Pt. Lk. Sup.  
" *gnaphalodes* Fox Riv.  
*Aster tenuifolia*, Namakwagon R.  
*Aster* Fox R.  
*Anemone lanifolia*? Montreal Riv. Lk. Sup.  
*Alopecurus geniculatus*, Saut Ste Marie  
  
*Betula papyracea*, Pt. Iroquois, Lk. Sup.  
*Baptisia coerulescens*, Fort Winnebago.  
*Bunias* Lake Michigan.  
*Batschia* Grand Lake Lk. Sup.  
*Bistorta capitata*, Keweenaw Lk.  
*Bidens Beckii*, St Croix Riv.  
*Boerhaavia* Yellow Riv.  
  
*Cymbidium pulchellum*, Keweenaw Pt. Lk. Sup.  
*Corollaria multiflora*, Granite Pt. Lk. Sup.  
*Convallaria borealis*, Saut Ste Marie.  
*Carex* (Several species, not examined particularly)  
*Chara foliosa*? Mauvais R.  
*Cirsium Pitcheri*, Grand Lake, Lk. Sup.  
*Corylus rostrata*, Keweenaw Pt. Lk. Sup.  
" *Americana*, Mauvais Riv.  
*Cassia chamaecrista*, Cap Ville, Upper Mississippi  
*Cistus canadensis*, Pt. aux Pins, St Marys R.  
*Corydalis glabra*, Riv. Des Monts, Lk. Sup.  
*Cornus circinata*, Namakwagon Riv.  
*Cynoglossum amplexicaule*, Saut Ste Marie.  
*Commelina* Pt Iroquois, Lk. Sup.  
*Drosera rotundifolia*, Lk Kaganogameg.  
*Drosera* Keweenaw Pt. Lk. Sup.  
*Digitaria* Namakwagon River.  
*Dracopis virginicum*, Red Cedar Riv.  
*Cypripedium acaule*, Saut Ste Marie.  
  
*Eanthonia spicata*, Mauvais Riv.  
*Erca palustris*, Ontonagon Riv.  
  
*Euphorbia maculata*, Red Cedar Riv.

*Erigeron glabellum*? Namakwagon R.  
*Erigeron* Yellow R.  
*Eryngium* Galena, Illinois -  
*Equisetum* Lk Michigan.  
*Euchromia coccinea*, Saut Ste Marie M.T.  
*Elymus virginicus*, Namakwagon Riv.  
" *strigosus* do do  
*Eriocaulon pellucidum*, Keweenaw Pt. Lk. Sup.  
*Eriophorum angustifolium*, Pt Iroquois Lk. Sup.  
" *uliginosum*, do do  
  
*Gynophora papulosa*, Keweenaw Pt. Lk. Sup.  
*Gentiana crinita*, Lk Michigan.  
*Geranium dissectum* - Lake Superior -  
*Galium lanceolatum*, Red Cedar Riv.  
*Gerardia pedicularis*, Fox Riv. Wisconsin Terr.  
" *maritima*, Lk Michigan -  
  
*Hippophae canadensis*, Keweenaw Pt. Lk. Sup.  
" *argentea*, Saut Ste Marie.  
*Helonia chrythrosperma*, Lk. Superior  
*Hedysmum glabra*, Lk. Michigan -  
*Hydrophyllum purpureum*, Lk. Chitac.  
*Hippuris vulgaris*, Namakwagon Riv.  
*Hudsonia tomentosa*, River St. Mary.  
*Hypericum Canadense*, Montreal Riv. Lk. Sup.  
" *prolificum*, Lk. Michigan -  
*Hieracium macrophyllum*, Keweenaw Lk.  
*Hyssopus scrophularifolius*, Galena, Ill.  
*Hieroglossa borealis*, Saut Ste Marie  
*Ilex canadensis*, Saut Ste Marie - M.T.  
*Lycopodium dendroideum*, Lake Sup.  
" *annulatum* - do  
  
*Juniperus sabina*? Pic. P. Rocks. Lk  
*Juniper* St Marys Riv.  
  
*Linna arundinacea*, Namakwagon R.  
*Lidum latifolium*, Saut Ste Marie  
*Lobelia puberula* Yellow Riv.  
*Liatris* Namakwagon Riv.  
*Linna borealis*, Saut Ste Marie -  
*Lathyrus palustris*, Presque Isle, Lake Sup.  
" *decapitalis* Lk. Sup.  
*Lichia racemulosa*, Ottawa Lake  
*Lonicera hirsuta*, St. Michael Id. Lk. Sup.  
" *sempervirens*, Lake. Sup.  
*Lysimachia thysifolia*, Keweenaw Pt. Lk. Sup.  
" *revoluta*, Mauvais Riv.



*Myrica gale*, Riv. St. Mary -  
*Malva*? Cap. hills Upper Miss.  
*Monarda punctata* do do  
*Microstylis ophioglossoides*, Bad Riv.  
*Muhlenbergia* Sant Ste Marie

*Nelumbium luteum*, Upper Mississippi.

*Polygonum amphibium* Namakwagon Riv.  
" *alinode*, La Pointe Lk. Sup.  
" *articulatum*, Lk. Michigan  
" *coccineum*, Namakwagon R.

*Phlox*? Namakwagon R.

*Primula farinosa*, Thunder Bay, Lk. Huron

*Primula* Presque Isle Lk. Superior

*Pedicularis gladiata* Fox R.

*Pinus niger* Keweenaw Pt. Lk. Superior

*Populus tremuloides*, Mauvais Riv.

" *loevigata*, Upper Mississippi R.

*Prunus deppea*, Lk. Michigan -

*Petalostemon violaceum* Upper Mississippi

" *candidum* do do

*Potentilla tridentata*, Sant Ste Marie

" *fruticosa*, Lk. Superior & Michigan

*Parnassia Americana*, Lk. Michigan -  
*Pyrrola uniflora*, Bad Riv.  
*Pinguicula elatior*, Presque Isle, Lk. Sup.  
*Pycnanthemum* Galena Ill.  
*Polygala polygama*, Namakwagon R.

*Ranunculus filiformis*, Sant Ste Marie -  
" *prostratus*, Mauvais Riv.

*Rudbeckia hirta*, Namakwagon R.  
" *digitaria*, Fox R.

*Rhamnus* Namakwagon R.

*Rosa gemella*? Lk. Superior

*Rubus hispidus*, Lk. Sup.

" *sexatilis*, Pt. aux Travers, Lk. Sup.

*Ribes albinervum*, Namakwagon Riv.

*Sweetia deflexa*, Mauvais Riv.

*Silphium tribinthumatum*, Fox R.

*gummiferum* Fox R.

*Solidago* Red Cedar R.

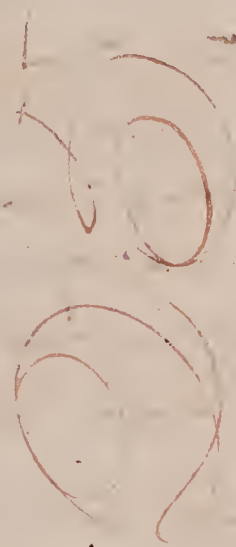
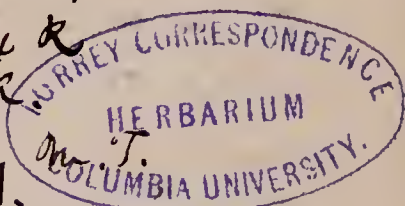
*Sanicula*? Green Bay

*Stachys* Sant Ste Marie.

*Salix uva-ursi*? Keweenaw Pt. Lk. Sup.

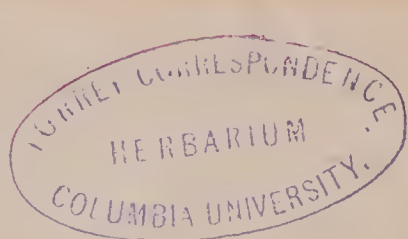
" *prinoides*, Mauvais Riv.

*Spiraea opulifolia*, Riv. St. Mary -



Lock. John Torrey.  
Prof. of Chem. & Nat. Hist.  
Col. Phys. & Surgeons.  
New York

Douglas Houghton  
March 20th 1832  
Rec'd March 29th  
Dec'd  
Apr. 15th



mail

*Sorbus Americana*, Sant Ste Marie -  
*Smilax rotundifolia*, Lake of the Isles -  
*Tamias lutescens*, Lk. Superior  
*Tussilago palmata*, Lk. Michigan -  
*Utricularia cornuta*? Lk. Sup. (the same species which  
you have undoubtedly examined from a small Pond in Pennsylvania)  
*Utricularia purpurea*, Lk. Chippewa -

*Utricularia canadensis*, Bad R.  
*Viola lanceolata*, Sant Ste Marie.  
*Viburnum opoxococcus* do  
" *lentago*, Lk. Sup.  
*Bernonia hirsutissima*, Up. Miss.  
*Verbena bracteosa*, Prairie du Chien.  
" *stricta*, do  
*Zigadenus*? Lk. Michigan

*Laparus nodiflorus*  
*Galena Illinois*  
*Zizania aquatica*  
St. Croix River



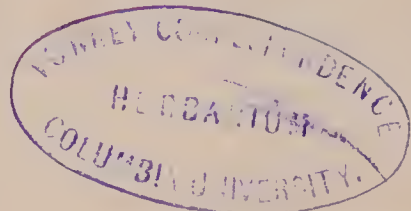
Lac La Piche  
(Source of the Mississippi R.)

July 13. 1832

D. HOUGHTON.

(Sandy Woods)

No. 1.



Fredonia N.Y. Nov. 24

Dear Sir,

I have but just arrived in this place, and the lateness of my arrival, as well as other circumstances, which I could not foresee, will prevent my visiting New York this winter.

I have an opportunity to forward a small pack-  
-age <sup>of plants</sup> to Albany, (by Dr. Crosby, one of the Electors) and I doubt not but it will reach you in safety - I have but a short time to prepare them, and a great pressure of business, together with an almost constant chat of friends, do not add much to the facilities. Nearly all the plants are labelled in my collection, but as it was done in great haste and under unfavorable circumstances I would be unwilling to send them without reviewing - Time will not allow me to do this, and to obviate all difficulties I have concluded to send them with the bare localities - I send a few common plants for the purpose of settling difficulties in my own mind -

I will probably leave here for Detroit (to which place you will please direct your communications) in three or four days - I trust that <sup>the</sup> coming season will allow me an opportunity to investigate the Nat. Hist. of the Peninsula of Michigan, and a part of Indiana, but it is somewhat difficult to determine so far in advance. At present I <sup>am</sup> most anxious to complete, for publication, a Geological map of Michigan, N. West, & a part of Wisconsin Territory - My collection of Rocks, Minerals, shells &c.



which were shipped several weeks ago at the South  
the Maria have not yet arrived, & I almost fear they  
are lost -

Among my collection of plants of this year I  
notice from my field notes the following in addition  
to those which I forward you - Some of them were col-  
-lected barely for comparison -

*Equisetum limosum* -

— *palustre* -

*Holcus lanatus* -

*Corallaria trifolia*

*Trifolium maritimum*

*Microstylis ophioglossoides*

*Goodyera pubescens*

*Polygonum articulatum*

*Rumex farinosa*

— *mustasinica* -

*Batschia canescens*

*Pinguicula* -

*Hedysarum elaeagnifolium*

*Arabis hirsuta*

— *lyrata*

*Dioscorea alata*

*Geranium carolinianum*

*Cerastium viscosum*

— *oblongifolium*

*Arenaria lateriflora*

*Saxifraga virginiana*

*Lathyrus maritimus* -

*Rosa gemella*

*Amorpha canescens*

*Petalostemum candidum*

*Euphorbia corollata*

Prof John Torrey

*Lophanthus arisatus*

*Scutellaria ambigua*

*Eupetrum nigrum* -

*Menyanthes trifoliata*

*Phlox aristata*

*Campanula acuminata*

*Houstonia longifolia*

*Lonicera hirsuta*

*Ranunculus prostratus*

*Thalictrum corymbellum*

*Hieracium fasciculatum*

*Rudbeckia hirta*

*Erigeron integrifolius*

*Liatris scariosa*

*Bernonia novoboracensis*

*Aster sericeus*

*Solidago virgaurea* var *alpina*

*Artemisia sericea*

*Chrysophyllum oppositifolium*

*Mullea cordifolia*

*Hemichla americana*

*Rubus parviflorus* -

*Myrica gale*

*Pinus banksiana*

*Myriophyllum spicatum*

Yours Truly

J. Houghton

Ames,

15th -

Dec? (in a collection of  
H. Houghton plants) Dec.

Nov 24th 1832

J. Houghton



44

Bull Nov. 1/12

Detroit 1st Nov. 1884

LIBRARY  
NEW YORK  
BOTANICAL  
GARDEN.

My dear Sir,

Your favour of the 24th ult has just come to hand. The few days which have elapsed since my return to winter quarters has left me but little time as yet to give ~~attention~~ to my attention, of consequence, to the details of the work under my charge & the Botanical Department has received least -

The vacancy in that dept. <sup>of Botany</sup> made by the resignation of Dr. Wright, has not as yet been filled; & but one sub apt. has been employed (in the shape of Collector) during the past season - Dr. Bull, the sub. Apt. occupied a portion of the season in the interior of the state, & a portion, in company with myself, on the coast from the foot of Lake Superior to the mouth of Monominee Riv. of Green Bay - These coast examinations have extended over from 5 to 600 miles of coast, & have been highly interesting both <sup>in</sup> Geological & Botanical point of view.

I found most of the plants which had before been seen only on the coast of Lake Superior; along the shores of Green Bay, & the northern portion of Lake Michigan, & I am disposed to think we have a few that are undescribed in any of the works before me, (my botanical library is <sup>comparatively</sup> now large) - But in referring to this subject you must be well aware that among my multifarious duties no time has been left to give this subject the attention it deserves. We will be able at least to extend localities considerably

From the J. D. Brooke Collection  
Given by A. M. VAIL.



In a Sphagnum marsh near the northern part of St. Higgins  
I found (in company with a variety of <sup>northern</sup> Carex, Scirpi &c) a species of  
Lycopodium, which (if there be no error in the genus) will probably  
prove to be undescribed - I have not examined it closely & therefore  
speak somewhat at random - The height of the plant does not exceed  
10½ inches & has much the habit & appearance of ~~the~~ *Hed. junc.* *Hurcia*.  
Fruit axillary - I find nothing like it in any work in my possession  
though ~~found~~ in Hooker's *Icones Filicum* two or three, figured,  
which approximate -

- We have also a *Geranium* which may possibly  
prove to be undescribed - A dwarf of the smallest size, allied to *Robertianum*.  
(Sub. Aspt. in Bot. Dep't.)

Dr. Bull <sup>(Sub. Aspt. in Bot. Dep't.)</sup> left here a few days ago with a  
suite of the plants collected this year, for the purpose of  
submitting them to the examination of Dr. Wright, who has  
consented to bestow some labour upon the work - So soon  
as it shall be put in shape all the information which has been  
collected is at your service, together with such specimens as  
you may wish - It is quite probable that I may visit New York  
within a few weeks & if so will take such specimens with  
me as I may think will be interesting to you -

I am extremely anxious to procure European plants, for  
my private collection, as I am now nearly destitute of them, I have  
written Dr. Gray, twice on the subject, but since no answer has been  
rec'd from the Dr. I fear the letters have not been received by  
him -

A portion of the University buildings are in progress  
& all looks well - I shall commence removing my



Geological, Mineralog. & Zoolog. collections to Ann Arbor within a few weeks but do not propose making it my permanent residence until the next fall, when it is proposed to make a commencement in the University - As I will be compelled to take temporary charge of the Department of Chemistry, my mind will be a little abstracted, at first from the subjects over which I have been given a more direct Charge -

The embarrassments existing in the finances would must necessarily more or less cripple the institution at first but I think we have good reason to believe that ere long she will rise above it -

I am much pleased to learn that you will make a report for the coming winter, for it will be of much assistance to us in the survey of this State, but I now fear our final report will appear without as much of Botany as could have been wished - The condition of our State finances has been an "eye sore" to progress, & this was the sole reason for the resignation of Dr. Wright - I cannot speak too highly of his Dr. W's qualifications as a man of science or of his moral worth; & his abandoning the work under his charge has been to me one of the most severe trials I have had to encounter -

We suffer much for the want of books but I have expended from time to time all my surplus means to enlarge my library & have imported many of the expensive foreign works, so that I have now a very tolerable library, but when I look



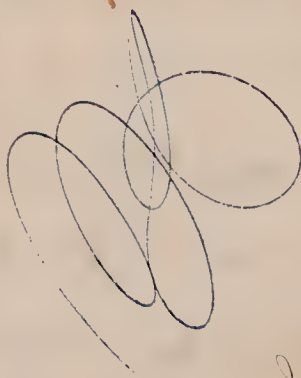
at the advantage your board have in that way it almost dis-  
-Courages me - I look anxiously for the return of Dr. Gray & trust we may be soon  
pursuing our favorite subjects side by side -

Dr. Pitcher is now sitting by me & wishing to be remembered  
to you - I shall always be happy to hear from you & trust that whatever  
you may wish done you will make known without reserve -

Prof John Torrey

Yours truly

Douglas Houghton

  
Prof John Torrey  
New York City

single



I have now seen of the last of the Rising Americans, & if  
you will will forward you down -  
forward you the aut for the hol of your place by Dr. Gray & am  
not now certain but I did so; if not will you inform me?  
AT